

## Incoherent gibberish: epilepsy, migraines, psychotic breakdown or ES?

In the first four months of 2011 four TV reporters and actors suddenly switched into talking gibberish. Serene Branson, a CBS reporter in Los Angeles, in February 2011 was told she suffered a “migraine aura” with no lasting symptoms. In January Sarah Carlson, on WISC-TV, was said to have suffered an “epileptic seizure”, while Mark McAllister on Global Toronto News also suffered a “migraine” and Judge Judy had to leave the studio because of garbled speech and double vision. The Daily Mail reported about them on 2nd April under the heading “Are U.S. government microwave mind-control tests causing TV presenters’ brains to melt down?” In addition there are reports of two middle-aged men suddenly babbling incoherently in what appears to be permanent psychotic breakdowns, each after ten years’ exposure to powerful phone masts.

## EHS survey in Japan

A survey of 75 people suffering from EHS in Japan (Kato Y, Johansson O, Pathophysiology, 2012) showed that 85% reported tiredness, and 81% headache, memory of concentration problems. The most plausible triggers for EHS were a mobile phone base station or a phone. 65% reported health problems from other people’s mobiles on trains or buses, while 12% could not use public transport at all. Most had lost their jobs or experienced a decrease in income since they were sensitised. 85% tried to protect themselves, such as moving house. EHS people suffered economic and social problems as well as ill health.

## “The Electro Soup” - You Tube video

If you’re feeling in the mood, watch: Serge-Andre Jones: “La soupe electro” (The Electro Soup). It’s brilliant. [www.youtube.com/watch?v=5zG9wuv9o8o](http://www.youtube.com/watch?v=5zG9wuv9o8o)

# SCIENCE SNIPPETS

## New ES test? - involuntary hand movements from radio signals

By attaching movement sensors to the hands of people sensitive to radio waves, researchers have shown their reaction to varying levels of radio transmissions while driven along a 2 km road inside a van which also recorded simultaneously the intensity of a radio signal at about 100 MHz from a FM tower 30 km away. It also picked up human hand movements correlated with the change in geomagnetic strength over a geological fault which crosses the road (Huttunen P et al, Acta Physiol Hung., 2011).

## ES symptoms blocked by shielding computers

Shielding an ES person for 1-7 years from the EMF produced by a computer or laptop can help that person to return gradually to using the computer for a whole day with relatively few ES symptoms. (Hagstrom M et al, Pathophysiology, 2012)

## Is your mobile killing you?

The Sun on 4th May had a long and well researched article headed “Is your mobile killing you? Why using your phone could make you ill”. It followed the news that brain tumours have risen 50% in ten years since 1999. It quoted Professor Denis Henshaw as saying: “Vast numbers of people are using mobiles and they could be a health timebomb, not just for brain tumours but also infertility. We should be openly discussing the evidence but it is not happening.”



## DNA breaks from 15 minutes’ mobile call

A 15-minutes’ mobile phone call at 900 MHz GSM increases single-strand DNA breaks in human hair roots in a dose-response relationship (Cam & Seyhan, Int J Radiat Biol, 2012).

## Dr George Carlo on EHS



*This is from a recent discussion with Dr. George Carlo, Chairman of the Science and Public Policy Institute in Washington, D.C.. Since 1992 this group has been working toward understanding the complex interactions between radiation that is part of wireless communication and its impact on human life. He ran the largest research project into this*

*problem from 1993 to 1999, established an international post-market surveillance registry of those suffering from wireless radiation impacts in 2000, and has continued with research, including a study of more than 300 EHS sufferers in the UK, into the development of intervention protocols that help manage the condition. In this article, he shares with us some of their latest findings. He is scheduled to be in the UK giving two workshops: November 17th and 18th, supported in part by ES-UK.*

**ES-UK:** What is the current thinking on EHS and its status as an illness?

**GC:** There is no doubt that EHS is a serious condition that tragically attacks the core of the human spirit. It reaches deeply into personal relationships, parenting abilities, learning facility, workplace opportunities and general well-being. In this regard, it is among the most negatively impacting of illnesses, while also being one of the least understood and most poorly managed by medical and public health professionals.

**ES-UK:** What exactly is EHS in your view?

**GC:** First, I want to make clear that EHS is not a mental illness. It is, in fact, a complex matrix of conversions between defined physical pathology and consequent functional impairment. Each converts to the other, thereby propagating more of each. It is a spiraling condition that is often mislabeled as psychological or psychosomatic. It is neither. It is every bit as physical as cancer and heart disease. Ironically, EHS's self-propagation character acts on the human mind and body in a manner similar to how electromagnetic radiation acts in the environment.

**ES-UK:** Why does the medical community appear to lag so far behind in diagnosis and treatment of EHS?

**GC:** EHS is particularly difficult for those who suffer from it because the condition defies standard medical and public health approaches. Clinicians and other practitioners do not understand it because it does not fall easily into line with what their standard training has prepared them for. There are a couple of reasons for this. First, the resultant symptoms are cascades, with manifestations dependent upon the individual's genetic makeup and living environment. Thus, there are no hard and fast diagnostic rules. Second, the underlying pathology is fundamentally cell-membrane based, which further complicates the differential diagnosis because many tissues, organs and

organ systems become impacted. Thus, big-picture, specialized, holistic approaches to diagnosis and treatment are necessary.

**ES-UK:** What is the underlying pathology and how can it be measured?

**GC:** The underlying pathology in EHS is cell-membrane hypersensitivity which now can be measured by a relatively straightforward laboratory assessment following a simple blood draw. The condition is induced by structural changes to the cell-membrane that are triggered by localized oxidation reactions that consequently impair cellular function. The condition is epigenetically induced as a maladaptation to environments that include both general and specific interferences from electromagnetic fields, and is self-propagating. The pathology is an environmentally induced genetic change that occurs in people who have diminished adaptive capacity, sometimes diminished because of the electromagnetic fields themselves, but not always.

**ES-UK:** What does 'epigenetically induced' mean?

**GC:** Epigenetic mechanisms involve the complex interplay between genes and the environmentally mediated switches that turn specific genes on and off. At any point in a person's lifetime, their phenotype – or what is evident as that person mentally, physically and behaviorally – is the manifestation of which genes are turned on and which are turned off. The matrix of genes turned on and off at any one time carries into daughter cells after mitosis, thus keeping the same phenotype manifesting. This is actually good news because it portends that increasing a person's adaptive capacity can reverse the pathology and resultant symptom cascades.

**ES-UK:** What does the laboratory test measure?

**GC:** In conjunction with Dr. Jie Sun at Applied Bioanalytical Labs in Florida, we have developed a targeted laboratory assay that focuses on two parameters indicative of the cell membrane damage associated with the EHS condition. The first is malondialdehyde or MDA, which is a byproduct of lipid peroxidation. We use third derivative spectroscopy in conjunction with a thiobarbiturate reactive species assay which is specific to MDA. The second is the determination of total antioxidant capacity against peroxy radicals. Together, these assays give us a read on the amount of cell membrane structural change that is indicative of maladaptive response.

**ES-UK:** What do you believe the future holds for those suffering from EHS?

**GC:** We and others have been at this now for some twenty years, and we are beginning to understand the complexity of the condition -- and the complexities inherent to managing it in those suffering. The good news is that we are making progress and it is clear that the condition can be reversed in many people. We now know that the immediate need is to increase adaptive capacity so that people can survive in environments that undoubtedly will continue to carry ever-evolving electromagnetic radiation exposures. The ultimate goal is to allow people to freely and confidently re-integrate into society to live happy and healthy lives.

# EHS and positive thinking

By Kathleen.

I have had allergies all my life but the problems became much more extreme 33 years ago. It was not until the late 1980s that ES was more formally recognised, although I had turned blue on the first occasion I had touched the keys of a word processor. Computers have never been for me!

In the 1990s I became friendly with a lady who had woken up one morning to find herself permanently paraplegic 10 weeks after the birth of her son, her third child (I think EHS is bad!). We were both studying for an OU degree when we met over the phone. We had many interesting discussions about life. I always remember her saying how the first year of disability is indescribably awful as one is so angry. After 10 years your new life is quite normal to you, whatever the restrictions, so get on and enjoy what you do have. How right she was.

I genuinely don't spend my days worrying about what I can't do or where I can't go. There is no point whatsoever in bothering with the can'ts. Having had the doubtful pleasure of phone calls from someone whose every sentence began with "I can't ...", I realised that is no way either to make new friends or to keep old friends.

I remain somewhat ambivalent about discussing or reading about symptoms of ES in detail. I see that it is necessary to identify the symptoms of ES so that sufferers can recognise their problems. However, I sometimes read articles and hear, for example, that street lamps can cause a problem to some people. I then have to pull myself together and tell myself that the street lamp outside my house doesn't cause me a problem yet. It would be easy to fall into the trap of things becoming harmful just because I have read or heard about it. I need to keep a proper perspective on things!

My life works well. It is different from what I

imagined as a teenager, but who does have their dream life? I have much to enjoy. I live in Scotland and have a magnificent view from my sitting-room window (when I can see it). The local weather station has just recorded 16.1 inches of rain in August. We have millions of midges in the summer and the deer can eat and destroy the garden in a night. It is not only EHS which can be irritating! On the other hand I find gardening very therapeutic except when I am zapped by a low-flying helicopter or bitten by midges or ticks!

For a further perspective on life, I look around my immediate neighbours. Two are in bed 24/7; another can barely walk; two have dementia and can't always find their way home and, no, I don't live in residential care or sheltered housing! I may have a restricted life but I can make it better than many of those around me, and in small ways I can do things for those worse off than me.

I have been unable to work for many years although I have tried different things over the years. I can, however, do some volunteering. Most volunteer with some conditions – mine include absolutely no electronics and an understanding that I can be unreliable in attendance, so I can only do things that can be cancelled (without harm) at short notice. I have found a niche in teaching reading and writing, one to one, for an hour a week. This is done with pencil and paper in an old "healthy" building. My partners have mainly been mature – 50+. Teaching someone of that age how to write their own name is a challenge and achievement for both of us. To help someone to see and read words on street furniture is helpful to them and a pleasure for me. EHS does not make me useless. It maybe makes me much more understanding of other people's problems and hopefully more considerate towards other people. EHS has given me more time to think of others, meet different people and make new friends.

I live my life on the principle that there is always someone worse off than myself. There are times when I am miserable and I need help, but if I want to have the pleasure of friends and family then I need to take an interest in them. I still have much to give despite the EHS. How on earth would I manage in life if I couldn't read a single word and yet had to live entirely on my own? How would I feel if I had a son or daughter in Afghanistan? EHS is part of my life but I need to keep its problems in perspective.

# INTERNATIONAL NEWS

## First EMF-free town in Spain

Jacobo Camarero, the Councillor for the Environment at Olvera, a beautiful town near Cadiz, has confirmed that the full city council unanimously declared the town a "Electromagnetic Pollution-Free Municipality".

## "Life Will Be Difficult for Mobile Phone Fanatics in Udine, Italy"

10 Minutes Online on 23rd April reported that the mayor of Udine, a city of 100,000 in Italy, has launched a campaign to ban mobile phones, on the initiative of one of the city's elected officials who is a physician. Mobile phones "harm health and ruin social relations." The mayor invites tradespeople to ban the use of mobiles in their establishment

## ES disability allowance in France

France is joining Sweden, Spain and Canada in recognizing the disabling nature of ES. On 15th March hese-project.org reported on the first judicial acceptance of a case of Electro-allergy or Electromagnetic Hypersensitivity in France. Dr. Hans-C. Scheiner diagnosed Villemot André, aged 53 and born in Saint-Louis, Senegal, for 20 years a teacher at the Ministry of Agriculture and commissioner for the adult education at the University of Nantes. L'hopital France recognises his Intolerance Syndrome to Electromagnetic fields (ETS or Electric hypersensitivity) from environmental pollution.

## EMF shielding tax deductible in Germany

Some EMF shielding products have been tax-deductible for a number of years in the UK. This is now also true in Germany, where a legal

judgement has clarified the issue. A press release on 2nd April reported that expenses for the shielding of a condominium against RF radiation can be deducted from income tax as exceptional expenditures. The 10th Senate of the Finance Court Cologne issued this decision on 8th March (10 K 290/11). In her income tax return, the plaintiff claimed expenses of 17,075 euro for the installation of RF radiation shielding to protect her condominium against broadcast, TV, and cell phone radiation. The revenue office declined these expenses because there was no certificate and the shielding could only be considered as a precautionary measure, but the 10th Senate of the Finance Court Cologne reversed this view and allowed the deduction as medical expenditures.

## Israel mobile health warning

In March the Israeli parliament backed a bill requiring a health warning on all mobile phones: "Warning - the Health Ministry cautions that heavy use and carrying the device next to the body may increase the risk of cancer, especially among children."



## South Australia: no wireless smart meters

In May 2012 Tom Koutsantonis, minister for Mineral Resources and Energy, stated that there is currently no existing or planned government smart-meter programme in South Australia.

## Canadian Environmental Sensitivities figures

The Microwave Factor on 10th May reported that over 1 million Canadians have been diagnosed with Environmental Sensitivities, including MCS and EHS. 179,000 Quebecers have been diagnosed (Statistic Canada, 2010), up from 171,000 in 2005, and the number in Canada has increased by 34% between 2005 and 2010.

## Electromagnetic noises

The Daily Mail on 5th March reported that many people in the northern hemisphere heard strange sounds one night, loud enough to set off car alarms. Jean-Pierre St. Maurice, of the University of Saskatchewan said that it's electromagnetic noise emitted from auroras and radiation belts. Other people linked it with the Hum, heard by 2-10% of the population in various places. Others link these audible phenomena with man-made communication radiation or HAARP. The Frey effect has been known since 1962 whereby microwave radiation at non-thermal levels can induce a noise heard by some people, a phenomenon used in military warfare.

## ICNIRP chairman silenced – 24/7 ICNIRP for one year is too much!

Professor Girish Kumar reported on a conference in India in February 2012, apparently sponsored by Vodafone to support ICNIRP's 6-minute heating limits: "I showed the calculation that if a person is exposed to so-called safe radiation density [i.e. ICNIRP 6-minutes averaged heating limit] for 24 hours, it is equivalent to putting that person in a microwave oven for 19 minutes per day! Finally, when ICNIRP Chairman, Dr. Paolo

Vecchia, said that ICNIRP guidelines of radiation density of 9.2 W/m<sup>2</sup> is valid for 1 day, 1 year and even 100 years of exposure, I asked him, "Shall we expose you to 9.2 W/m<sup>2</sup> continuously for one year?" There was total silence and the session chair then intervened and said that I did not mean it. I replied that I definitely meant it."

## **India reduces mobile phone masts to 1/10th of ICNIRP heating limits**

On 4th May the Indian Ministry of Communications and Information Technology announced that exposure limits for the Radio Frequency Field (Base Station Emissions) is reduced to 1/10th of ICNIRP's limits as from 1st September 2012.

## **"Waldorf say no to Wi-Fi"**

This is the title of an article by Tim Whitnell in Inside Halton on 6th April. It reports that the private Halton Waldorf School in Burlington has no Wi-Fi or computers, following the principles of Rudolf Steiner who emphasised an academic curriculum integrated with music, drama, movement and the arts.

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## **DOCTORS' DENIAL**

**"It's not Happening... But it is...."**

### **Thoughts on Dealing with Denial**

*By Dr Diana Samways MBBS, who runs a private Holistic Medical Practice in Haslemere Surrey.*

Electricity and particularly wireless microwaves have made life very convenient and spawned whole new industries. Getting people to switch all this off is very difficult in a world where many people are actually addicted to their mobile gadgets. Even more difficult is to prevail on a spouse or other homemaker that home needs to be "wireless free".

There is a huge area of "medical" denial from doctors who haven't heard of ES and diagnose and treat it as something else, often requiring psychiatrists or pills. I see sick people and explain the problem, and have measured the wireless microwave equipment in their houses and told them what best to stop using for a trial of one month to see if their symptoms get better. If they don't believe me, there is nothing more I can do.

I used to suffer from food allergies, and found that it was helpful to develop a way of explaining the problem, simply, briefly and in a rather unemotional way (avoiding all the emotional baggage of anger and self-pity,) so that people could understand my needs. It is best to avoid entering into arguments or debate. From the ES person's point of view, one could say that if someone was allergic to perhaps, nuts, we would not be having an issue, nuts would be avoided. Years ago I attended a workshop in the USA where I learned a valuable lesson that "No" is a complete sentence "followed, if necessary by "and which bit of "no" don't you understand?" This concept is useful as there is really no need to argue the point.

Occasionally people state that "it's only anecdotal" to which my reply is: "But the first few cases of the plague were anecdotal... at what statistical

level does it become real?" Also everything starts "anecdotal" there is no other way.

One problem is that we are too nice, and have difficulty in stating our needs in case someone is offended or thinks we are crazy, and we are likely to feel bad about imposing and also bad if our needs are met at the expense of someone else's requirements, perhaps to keep their wretched mobile phone switched on. A sort of "damned if I do and damned if I don't." One tries to set reasonable boundaries in life.

Since wireless mobile gadgets are now almost everywhere, it is becoming increasingly difficult to remain unexposed. My comments really refer to situations where there is a choice, particularly wireless microwave equipment in private cars, and in the home. An Accoustimeter, which gives audible and visible indications of wireless microwaves is useful to convince others, as it gives measurements.

## **SCIENTIFIC DENIAL**

### **Many scientists suffer from "Pathological disbelief"**

An article in the Huffington Post of 24th May argued that the majority of scientific evidence supports homeopathy through the way weak EMR from DNA alters the structure of water. Some scientists, however, are born sceptics, whatever the scientific evidence. Professor emeritus Dr Brian Josephson of Cambridge University, a Nobel prize-winner, described how many scientists today suffer from "pathological disbelief;" that is, they maintain an unscientific attitude that is embodied by the statement "even if it were true I wouldn't believe it."

## **GOVERNMENT DENIAL**

### **Welsh government HPA-backed denial leaflet – "every answer scientifically wrong"**

On 16th March Wales Online reported under the title "Scientists hit out at Welsh Government's

mobile phone advice to children” some powerful criticism from leading international scientists about the leaflets for primary school and older children.

Dr Fragopoulou and Professor Margaritis said of the suggestion in the leaflet that there was no positive evidence that exposure to mobile phones caused health problems: “This is totally wrong based on epidemiological and clinical data... Every answer given within the Welsh leaflet is scientifically wrong.” Dr Johansson said: “The type of radiation emitted by these gadgets has been linked to cancer, neurological diseases, impairments to immune function and neurological function... We also know that this kind of radiation impacts DNA, leading to possible mutations and cancer development, as well as affecting fertility and reproduction, causing a dramatic decline in sperm count.” Dr Oberfeld said: “There is strong evidence for an increased risk of brain tumours after at least 10 years use [of mobile phones].”

Welsh MP Jonathan Edwards said: “The Welsh Government should be pursuing a precautionary principle which is based on facts. The current position of the Welsh Government smacks of the same failed public health approach to smoking ... unless it can be scientifically proven, it is irresponsible for the Welsh Government to issue guidance to children and parents stating there are no dangers in the use of mobile phones.” A Welsh Government spokesman said: “Our advice in the mobile phone leaflets for children is based on an evaluation of the available evidence by experts at the HPA and peer-reviewed scientific literature.”

### Safer magnetic limits for cows than humans

The Star reported on 26th February that Russ Loader and his partner, Kathy Melnitsky, moved into their fourth floor unit on Colborne St., Oshawa, eight years ago. Their symptoms began soon after unpacking. Russ Loader has a twisted neck, mangled hands, swollen ankles, sores on his legs, swelling toes, rotting toenails and exacerbated arthritis. It wasn't until they found a video online called “Dancing Cows” that the inexplicable ailments began to make sense to them. Dairy cows that live in barns with high electromagnetic fields have experienced joint swelling, open sores and rotting of their hooves.

In 2010 Dr Havas measured 100 Milligauss (mG) in certain hot spots in the apartment. David Colling thinks stray electrical currents flowing along steel water heating pipes are causing the Loaders' problem. A reading of 1 mG in a home is the norm, and in Israel houses cannot be sold above 10 mG. 2 to 4 mG is linked with a doubling of childhood

leukemia, and increased adult leukemia, brain tumours, breast cancer and miscarriages, while some people develop sensitivities to EMF. In contrast Health Canada follows ICNIRP's heating levels at 2,000 mG. Dr Havas noted that there are currently stricter guidelines for farms than for human beings. Loader commented: “How come I can light a friggling light bulb off my floor?”

### Muddled comments?

The so-called Executive Agency for Health and Consumers: “Promoting healthy environments: Electromagnetic fields” (bio Intelligence Service, August 2010), with advice from J Schuz of the Danish Cancer Society, states: [p.29] “Scientific evidence does not clearly support a link between exposure to RF and certain self-reported symptoms ... However, RF fields can influence electroencephalogram patterns and modify the stages of sleep in humans.” [p.30] “Even if some biological effects exist, they do not result in health consequences.”

### How some governments deal with radiation

A CCTV programme on 28th February noted that the Japanese government's reaction to the triple nuclear meltdown was to raise the safety limit from 1 to 20 Millisieverts per year, where an average annual dose of 0.2 Millisieverts is linked with cancer. The response of the US and Canadian governments was apparently to shut down all radiation monitoring on the west coast, although independent labs showed 40,000 times normal levels of noble gases reached Seattle. The German government, however, is to phase out nuclear plants.

### Magnetic fields – Government heating limits and biological safety limits

<i>Biological effects and limits</i>	<i>Government heating limits</i>	<i>microTesla (uT)</i>	<i>nanoTesla (nT)</i>
	UK: HPA, DECC (2012)	360	360,000
	ICNIRP (2010)	200	200,000
	Europe	100	100,000
	Russia (2007)	5	5,000
childhood leukaemia		0.2	200
Bioinitiative (2007)		0.1	100
Seletun (2011)			
California Dept. Ed., proposed for schools		0.01	10
human sensitivity, e.g. a ramp of 5nT at 7Nt		0.007	7
birds detect changes		0.001	1
Schumann waves, brain entrainment		0.000 05	0.05

## **DR GRO HARLEM BRUNDTLAND**

*In 2002 it was reported that Dr Gro Harlem Brundtland, a medical doctor, former Prime Minister of Norway, and former Director General of the World Health Organisation, suffered headaches from mobile phones and banned them from within three meters.*

### **Dr Gro Harlem Brundtland and EHS**

Thomas Ergo in the Norwegian newspaper, Aftenbladet, on 2nd May reported on Dr. Gro Harlem Brundtland's talk at Waterloo, Canada. "I was electro-sensitive and have been criticized for scaring people. We cannot say that this is not a problem." Repacholi, in an attack in the magazine Plot, argued that Gro, when she told Dagbladet in 2002 that she consistently got headaches from mobile radiation, has created radiation fear in the population. Since then, she has been silent about EHS until now. "Let me tell you how I became electro-hypersensitive," said Brundtland, according to Professor Havas' report. "It began with an accident with a microwave oven. As I made lunch for my husband and myself, I put some food in the microwave, on a plate with blue flowers. The turntable began to sparkle, and stupid as I was, I went closer to take a look. My eyes were destroyed and I was blinded for one year. I still have poor eyesight. It turned out that the flowers were painted with cobalt-blue paint. And now we know that we should not put metal in a microwave oven. This happened just two months after I became Director General of WHO. I had done research before I bought a microwave oven, and convinced myself that it would not be dangerous - something that was not correct. After this incident, I became electro-hypersensitive. I have been sharply criticized for scaring people from using cell

phones, because I told people the truth about my illness," said Brundtland in an article on Professor Havas' website.

Professor Havas, in an email to Eve magazine, said was impressed with how Dr. Brundtland spoke openly about her situation, but was concerned that Brundtland did not want to be interviewed by the press about her suffering. "If she does not have the courage to speak out, how can we expect others in the same situation, with much less power and influence, to dare to do so? People who are electro-sensitive are not well treated by their families and by society."

### **Plea to Dr Brundtland to help "the largest group of refugees in the world"**

Dafna Tachover of NY in an open letter to Dr Brundtland of 3rd May raised concerns about the need to speak out openly on behalf of EHS sufferers:

"I cannot see any greater humanitarian crisis that needs attending, as helping the largest group of refugees in the world, the people with EHS, especially since they have nowhere to go. I do not know of any other current humanitarian crisis that affects between 3-8% of the world. I do not know of any other group whose existence everyone is so determined to ignore, including governments, the media and even 'humanitarian' organizations like the WHO... This criminal and intentional disregard is causing EHS sufferers to be tortured physically and mentally every minute of every day."

Politicians criticise Repacholi – "the mobile industry's errand boy" – for attack on former EHS WHO director Dr Gro Harlem Brundtland  
On 13th April, Aftenbladet reported that Bent Høie and Laila Dávøy, two leading Norwegian politicians, criticised Repacholi

for claiming that Dr Brundtland's brave admission in 2002 that she, then Director General of the World Health Organization, suffered from EHS created fear in up to 6 billion mobile users. "That people have health problems from the radiation, there is no doubt. I think there is no doubt that there are people who are electro-sensitive, as some are allergic to peanuts and oranges," said Høie. Dávøy said: "I believe people who say they are allergic to mobile phone radiation. I think it's rather incredible and disrespectful to react this way, when Gro has chosen to be open about her problems with electrical hypersensitivity. Gro has been brave." She knows of children who have been sick but the symptoms disappear when the wireless radiation is removed. "You cannot blame children for getting sick because of them hearing talk of it being able to make them ill."

Louis Slesin of Microwave News revealed Repacholi's close ties to the mobile industry. In 2006, after Repacholi retired as its head, it was discovered the WHO's research into mobile-phones and health was funded by the mobile industry, via the Australian hospital where Repacholi previously worked. "Mike Repacholi turned his research project at the WHO into a supporter for the mobile industry. It was very sad to see him sell out public health for money from the industry. Some of us believed what he did was contrary to WHO's rules, but no one seemed to care," Slesin said to Aftenbladet. The Swedish journalist Mona Nilsson says Repacholi has been the mobile industry's errand boy. She wrote ironically to Aftenbladet: "We can conclude that Gro has managed to scare not only Korean students, but also animals and insects into imagining being harmed by mobile-phone radiation."

# READERS' COMMENTS

## NHS using 2B carcinogens unnecessarily

A reader reports on a stay in hospital where SBP/DBP/HR/O2 were all recorded by Wi-Fi, instead of traditional wired monitors. This horrendous mix of radiation, along with doctors' mobiles, seems against the basic principles of medicine, where exposure to possible carcinogens should be reduced rather than maximised.

## Dogs too suffer from electro-sensitivity

A reader reports that it is sad to see what domestic radio exposure is doing to household pets, which vets are at last realising are becoming increasingly susceptible. Their own dog died from DECT phone exposure over four years. Their next dog becomes symptomatic when someone enters the office with an active mobile phone. If it is a smart phone or Wi-Fi enabled his symptoms are worse. If they drive past a series of phone masts he almost becomes incontinent. These do not appear to be Rubin's psychological symptoms but they can still be truly debilitating for the pet.

## Static electricity from clothes and ME

Raymond reports that he used to get electric shocks years ago, but he now wears 100% cotton clothes and the shocks, the day sweats and a lot of the M.E. symptoms stopped. "I could only walk about 100yds and static triggered muscle pain, fatigue and brain fog. Now walking is no problem."

He has tried measuring static in different materials, results below. He hung the clothes on the line in the sun outside. The temperature was 27°C. He rubbed his hand inside the clothes slowly, but it was difficult to get a stable reading, since it varied a lot. These are the very rough average of 3 readings on each piece of clothing: acrylic 300 volts per metre; wool 200 V/m; polyester/nylon 150 V/m; polyester/cotton 60 V/m; silk 20 V/m; cotton (black) 16 V/m; cotton (white)

8 V/m. These measurements decrease with a drop in temperature.

"These measurements tie in with the triggering of my ME. Acrylic was the worst. Wool is OK in the cold all the time, but as soon as you go from cold into the warm, it creates a lot of static. Also I had noticed that dark cotton in the hot sun would trigger my ME. I can go out in the hot sun if I'm wearing only white shorts, or swimming trunks on and not get the ME symptoms."

## BT Home Hub liable for breaching outdoor limits inside neighbours' homes?

A reader comments that inside his detached house readings have increased to over 0.6 V/m in the rooms near a neighbour with a BT Home Hub with its Wi-Fi and cordless phone radiation. Since this is above the international outdoor biological limits of the Bioinitiative Report of 2007, is BT liable for the increasing number of illnesses which members of his family now experience? The Bioinitiative indoor limit is 0.2 V/m, while the Salzburg indoor limit is 0.02 V/m.

## What sort of life ahead with EHS?

A reader says she dreads hearing about new cases of EHS, especially if it is a child or young person. It is sad to think of what sort of life they have ahead of them, and not just that person, but also their family, potential life partner, friends and employers.

## Debden – mix of phone mast and radar?

A reader comments that the nosebleeds, dizziness and lack of sleep near the radiation from an O2 and Vodafone mast at Debden, Essex, reported in the March 2012 Newsletter, may have been particularly bad because they mixed with and added to the radiation from a radar said to be sited about a mile to the north.

## EHS from mobiles and laptops

Dafna Tachover of New York tells her story on a new website for EHS:

"Until recently, I was one of those who preferred not to think about the harmful effects of wireless technologies. I was 36, an attorney with an MBA who was

working on starting my own law practice and planning on having a baby. I was the embodiment of the current technology. I had 2 cell phones, I did not have a home phone and I spent hours using my cell phone/blackberry, despite the fact that like many others, many times I felt pain in my head, hand and pressure in my chest when using these

devices. My laptop was my best friend. I was one of the first people to purchase cellular wireless Internet connection for my laptop, to ensure that I can have Internet connection wherever I am.

But 7 months ago it all changed. I was excited to get a new Mac laptop, but when I used



it, I started feeling a tingling of electricity in my hands. I thought something was wrong with the computer after changing 5 computers in 3 weeks I figured that something is probably wrong with me not with the computer.

While changing laptops, I noticed that everyday when I touch computers, I develop new symptoms. I started feeling pressure in my chest, increased heart rate, difficulty breathing, headaches, my face would become red and hot, and I was nauseous. It took me 5 months and 10 non-helpful

doctors to figure out that I suffer from a condition called electro hypersensitivity, a condition I never heard about before. It seems that living in an apartment with high EMF and within less than 1 mile from 5 (!!!) wireless towers and abusive use of cell phones clearly had a health toll on my body.

The symptoms are growing worse and I feel pain even from a wall socket. Life has become very difficult and painful, and I probably will never have a baby because of the potential harmful effects to the fetus. I basically lost

my life.

No, I am not a lunatic, I am actually a very rational person. I do not imagine pain, and believe me, in this era this is probably the one condition one does not want to suffer from. And yes, there is already significant scientific research to support the existence of this condition as well as quickly growing numbers of people worldwide who report exactly the same symptoms. What we do not have is willingness from the government, from the media, and even from the public, to bravely deal with this information.”

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## TETRA causes rashes and tumour

In Sweden's Norrköpings Tidningar, on 15th May Roger Carlström, a 47-year-old police commander in Southern Skåne, replied to Adam Lagerqvist that the Swedish Radiation Protection authority is ignoring the facts about low-level radiation such as TETRA and Wi-Fi.

In 2007 the Swedish police received the controversial radio system called TETRA. Despite opposition the health risks were not investigated properly, even though in the UK officers suffered severe health problems, including sleep problems, skin rashes and cancer. “After only about a month's use of TETRA, I had rashes on the face, which was diagnosed as the skin disease rosacea. I also had severe sleep problems. I could be awake for two days. Some weeks I slept a total of only ten hours, divided into small portions. When I had many days off or was on vacation, sleep came back pretty quickly and the rash disappeared almost completely. But, when I started working again, the old symptoms returned immediately. My managers saw the connection between exposure to the radio system and my rash, and they made sure that I should work in an office without Tetra exposure. My rashes and sleep problems disappeared immediately.

But when I had a temporary job at a police station in Malmo, the skin rash returned. Next to my work place was the county communications centre, for

all radio traffic to and from police cars. There were also a number of cordless DECT phones. I had to go back to my old work. The rash disappeared promptly. But in autumn 2011 the rash flared up again. Next to the police premises was a training base, just started in premises formerly empty, using computers with a wireless network. The radiation from a router reached slightly into my room. With a laptop I measured the signal strength and when I moved into the middle of the room the signal disappeared. My health problems also disappeared immediately.

But then in December 2011, I became very ill and was hospitalized. A large brain tumour was removed. I know that both the tumour and the skin rash were caused by TETRA radiation and wireless networks. Radiation from the police radio system, a wireless network or a cordless phone, are similar and equally dangerous. Therefore, my advice is not to install wireless networks, whether at home, in schools or at workplaces. Use fixed, cable-connected, internet connections. You will also have a more stable and faster connection.

Already both students and teachers experience severe symptoms at schools where education is carried out through wireless networks, computers and ipads. In addition, the studies the authorities refer to are only made to see immediate effects, not damage at the long term, or biological damage. The Council of Europe recommends in Resolution 1815 that people should not use wireless networks in schools because of health risks.”

